

Electronic Coil, Transformer, and Other Inductor Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
334416, Electronic coil, transformer, and other inductor manufacturing	332	355	11 157	324 939	8 092	15 870	176 727	657 492	483 562	1 147 879	32 101
2002..	N	N	15 342	426 762	11 254	21 394	232 338	951 683	558 450	1 512 808	28 414
2001..	N	N	17 282	463 522	13 194	26 061	273 672	1 089 475	632 705	1 700 624	52 362
2000..	N	N	17 052	429 551	13 184	25 511	249 608	865 949	545 592	1 405 827	50 304
1999..	N	N	19 034	467 118	14 747	29 178	267 434	956 850	554 693	1 507 616	58 130
1998..	N	N	18 999	450 514	14 784	29 613	261 187	936 268	589 896	1 524 064	36 859
1997..	426	448									

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
334416, Electronic coil, transformer, and other inductor manufacturing												
United States	—	355	157	11 157	324 939	8 092	15 870	176 727	657 492	483 562	1 147 879	32 101
California	1	68	26	1 492	46 610	1 067	1 983	24 989	89 715	46 825	137 266	2 928
Connecticut	2	17	8	453	11 880	385	766	7 828	19 129	10 529	29 646	917
Florida	3	17	6	442	10 812	369	745	6 889	20 877	13 156	34 081	929
Illinois	1	40	23	1 290	35 797	967	1 830	20 108	66 804	42 885	109 510	3 100
Indiana	—	10	6	470	12 335	345	504	6 006	28 856	20 893	48 686	1 647
Massachusetts	1	15	3	232	7 966	169	332	4 231	14 641	9 186	25 415	518
Michigan	2	11	5	200	7 436	143	409	3 715	12 438	9 544	22 244	542
New Hampshire	—	7	4	469	15 520	279	610	7 336	27 877	14 368	43 306	547
New York	—	32	17	1 371	37 573	1 040	2 098	21 381	70 195	18 880	88 664	2 339
Texas	—	17	6	353	11 596	236	516	5 118	30 532	29 049	60 555	2 312
Washington	—	7	4	277	9 642	142	267	3 331	33 969	60 943	94 706	475
Wisconsin	2	10	4	352	11 808	231	441	4 574	21 673	15 632	37 874	413

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
334416, Electronic coil, transformer, and other inductor manufacturing	
Companies ¹	number.. 332
All establishments ²	number.. 355
Establishments with 1 to 19 employees	number.. 198
Establishments with 20 to 99 employees	number.. 134
Establishments with 100 employees or more	number.. 23
All employees ³	number.. 11 157
Total compensation	\$1,000.. 389 813
Annual payroll	\$1,000.. 324 939
Total fringe benefits	\$1,000.. 64 874
Production workers, average for year	number.. 8 092
Production workers on March 12	number.. 8 288
Production workers on May 12	number.. 8 307
Production workers on August 12	number.. 8 005
Production workers on November 12	number.. 7 750
Production worker hours	1,000.. 15 870
Production worker wages	\$1,000.. 176 727
Total cost of materials	\$1,000.. 483 562
Materials, parts, containers, packaging, etc., used	\$1,000.. 386 185
Resales	\$1,000.. 77 036
Purchased fuels	\$1,000.. 1 807
Purchased electricity	\$1,000.. 7 126
Contract work	\$1,000.. 11 408
Quantity of electricity purchased for heat and power	1,000 kWh.. 101 302
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 1 147 879
Primary products value of shipments	\$1,000.. 998 863
Secondary products value of shipments	\$1,000.. 36 351
Total miscellaneous receipts	\$1,000.. 112 665
Value of resales	\$1,000.. 106 560
Contract receipts	\$1,000.. 2 577
Other miscellaneous receipts	\$1,000.. 3 528
Primary products specialization ratio	percent.. 96
Value of primary products shipments made in all industries	\$1,000.. 1 237 379
Value of primary products shipments made in this industry	\$1,000.. 998 863
Value of primary products shipments made in other industries	\$1,000.. 238 516
Coverage ratio	percent.. 81
Value added	\$1,000.. 657 492
Total inventories, beginning of year	\$1,000.. 181 321
Finished goods inventories	\$1,000.. 61 941
Work-in-process inventories	\$1,000.. 26 316
Materials and supplies inventories	\$1,000.. 93 064
Total inventories, end of year	\$1,000.. 159 142
Finished goods inventories	\$1,000.. 54 251
Work-in-process inventories	\$1,000.. 27 181
Materials and supplies inventories	\$1,000.. 77 710
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 394 979
Total capital expenditures (new and used)	\$1,000.. 32 101
Buildings and other structures (new and used)	\$1,000.. 2 017
Machinery and equipment (new and used)	\$1,000.. 30 084
Automobiles, trucks, etc., for highway use	\$1,000.. 1 013
Computers and peripheral data processing equipment	\$1,000.. 2 166
All other expenditures for machinery and equipment	\$1,000.. 26 905
Total retirements	\$1,000.. 38 636
Gross value of depreciable assets at end of year	\$1,000.. 388 444
Depreciation charges during year	\$1,000.. 27 440
Total rental payments	\$1,000.. 17 471
Buildings and other structures	\$1,000.. 12 721
Machinery and equipment	\$1,000.. 4 750
Total other expenses ⁴	\$1,000.. 61 512
Response coverage ratio ⁵	percent.. 73
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 5 637
Communications services ⁴	\$1,000.. 2 776
Legal services ⁴	\$1,000.. 1 429
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 1 573
Advertising and promotional services ⁴	\$1,000.. 2 960
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 2 270
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 823
Management consulting and administrative services ⁴	\$1,000.. 3 677
Taxes and license fees ⁴	\$1,000.. 4 263
All other expenses ⁴	\$1,000.. 36 104

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
334416, Electronic coil, transformer, and other inductor manufacturing											
All establishments	—	355	11 157	324 939	8 092	15 870	176 727	657 492	483 562	1 147 879	32 101
Establishments with—											
1 to 4 employees	9	97	210	6 600	166	321	3 904	11 997	6 380	18 612	1 269
5 to 9 employees	7	41	274	9 548	206	430	5 036	18 782	10 964	29 748	2 045
10 to 19 employees	3	60	826	27 964	557	1 168	13 503	57 014	29 858	87 045	2 906
20 to 49 employees	—	77	2 278	63 401	1 660	3 422	34 438	157 748	126 171	282 583	5 474
50 to 99 employees	—	57	3 818	108 579	2 864	5 370	63 980	206 091	100 683	308 540	14 890
100 to 249 employees	—	22	h	D	D	D	D	D	D	D	D
250 to 499 employees	—	1	e	D	D	D	D	D	D	D	D
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	124	497	16 150	390	763	9 135	29 490	15 856	45 344	3 280

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
334416	Electronic coil, transformer, and other inductor manufacturing	355	11 157	324 939	8 092	15 870	176 727	657 492	483 562	1 147 879	32 101
3344160	Electronic coils, transformers, and other inductors	355	11 157	324 939	8 092	15 870	176 727	657 492	483 562	1 147 879	32 101

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
334416	Electronic coil, transformer, and other inductor manufacturing	2002.. N	X	X	1 237 379
	1997.. N	N	X	X	1 622 026
3344160	Electronic coils, transformers, and other inductors	2002.. N	X	X	1 237 379
	1997.. N	N	X	X	1 622 026
33441601	Electronic coils, transformers, and other inductors	2002.. N	X	X	1 146 667
	1997.. N	N	X	X	1 402 589
3344160100	Electronic coils, transformers, and other inductors ¹	2002.. 199	X	X	1 146 667
	1997.. 242	N	X	X	1 402 589
3344160Y	Electronic coils, transformers, and other inductors, nsk, total	2002.. N	X	X	90 712
	1997.. N	N	X	X	219 437
3344160YWW	Electronic coils, transformers, and other inductors, nsk, for nonadministrative-record establishments	2002.. N	X	X	47 802
	1997.. N	N	X	X	136 667
3344160YWY	Electronic coils, transformers, and other inductors, nsk, for administrative-record establishments	2002.. N	X	X	42 910
	1997.. N	N	X	X	82 770

¹For additional detail, see Current Industrial Report MA334Q, Semiconductors and Electronic Components.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334416	Electronic coil, transformer, and other inductor manufacturing		
00900001	Total materials .....2002..	X	386 185
	.....1997..	X	489 990
32721203	Tube blanks .....2002..	X	739
	.....1997..	X	1 047
33441200	Printed circuit boards (without inserted components) for electronic circuitry.....2002..	X	2 103
	.....1997..	X	1 582
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	14 650
	.....1997..	X	2 874
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	5 256
	.....1997..	X	2 874
33441400	Capacitors for electronic circuitry .....2002..	X	5 553
	.....1997..	X	2 794
33441500	Resistors for electronic circuitry .....2002..	X	3 436
	.....1997..	X	1 856
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	12 009
	.....1997..	X	7 806
32518835	Silicon, hyperpure .....2002..	X	D
	.....1997..	X	D
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) .....2002..	X	1 208
	.....1997..	X	1 218
33141917	Doped chemicals and other doped materials for electronic use .....2002..	X	181
	.....1997..	X	418
33111107	Ferrites (powder and paste).....2002..	X	5 107
	.....1997..	X	11 918
331000AA	Metal powders .....2002..	X	640
	.....1997..	X	2 186
33411001	Electronic computer equipment.....2002..	X	99
	.....1997..	X	N
33593101	Current-carrying wiring devices.....2002..	X	11 071
	.....1997..	X	6 794
33422001	Electronic communication equipment.....2002..	X	D
	.....1997..	X	373
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	D
	.....1997..	X	2 306
33451503	All other miscellaneous electrical measuring instruments and parts .....2002..	X	81
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	D
	.....1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	6 693
	.....1997..	X	N
33431005	Loudspeakers, microphones, and tuners (all types) .....2002..	X	D
	.....1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors) .....2002..	X	D
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control).....2002..	X	D
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	3 150
	.....1997..	X	4 811
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	8 119
	.....1997..	X	8 860
332000A9	Sheet metal products (excluding stampings) .....2002..	X	D
	.....1997..	X	D
332000AC	Metal stampings.....2002..	X	9 764
	.....1997..	X	16 252
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	5 151
	.....1997..	X	8 313
33200033	Other fabricated metal products (excluding forgings) .....2002..	X	2 660
	.....1997..	X	9 478
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished.....2002..	X	90
	.....1997..	X	2 063
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	53 140
	.....1997..	X	51 261
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	9 395
	.....1997..	X	15 534
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 320
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products).....2002..	X	4 075
	.....1997..	X	N
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	52 513
	.....1997..	X	74 714
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	14 374
	.....1997..	X	8 127
32611305	Resists (photosensitive resin films applied to the surface of a wafer) .....2002..	X	D
	.....1997..	X	N
32512005	Commodity gases .....2002..	X	193
	.....1997..	X	400
32599217	Masks .....2002..	X	D
	.....1997..	X	N
33141957	Silicon chips .....2002..	X	D
	.....1997..	X	D
32510074	Solvents.....2002..	X	513
	.....1997..	X	N

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334416	Electronic coil, transformer, and other inductor manufacturing—Con.		
32561000	Cleaning compounds	X	139
	.....2002..	X	N
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies.....	X	87 106
	.....2002..	X	
	.....1997..	X	96 677
00971000	Materials, ingredients, containers, and supplies, nsk	X	36 350
	.....2002..	X	
	.....1997..	X	143 704

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.